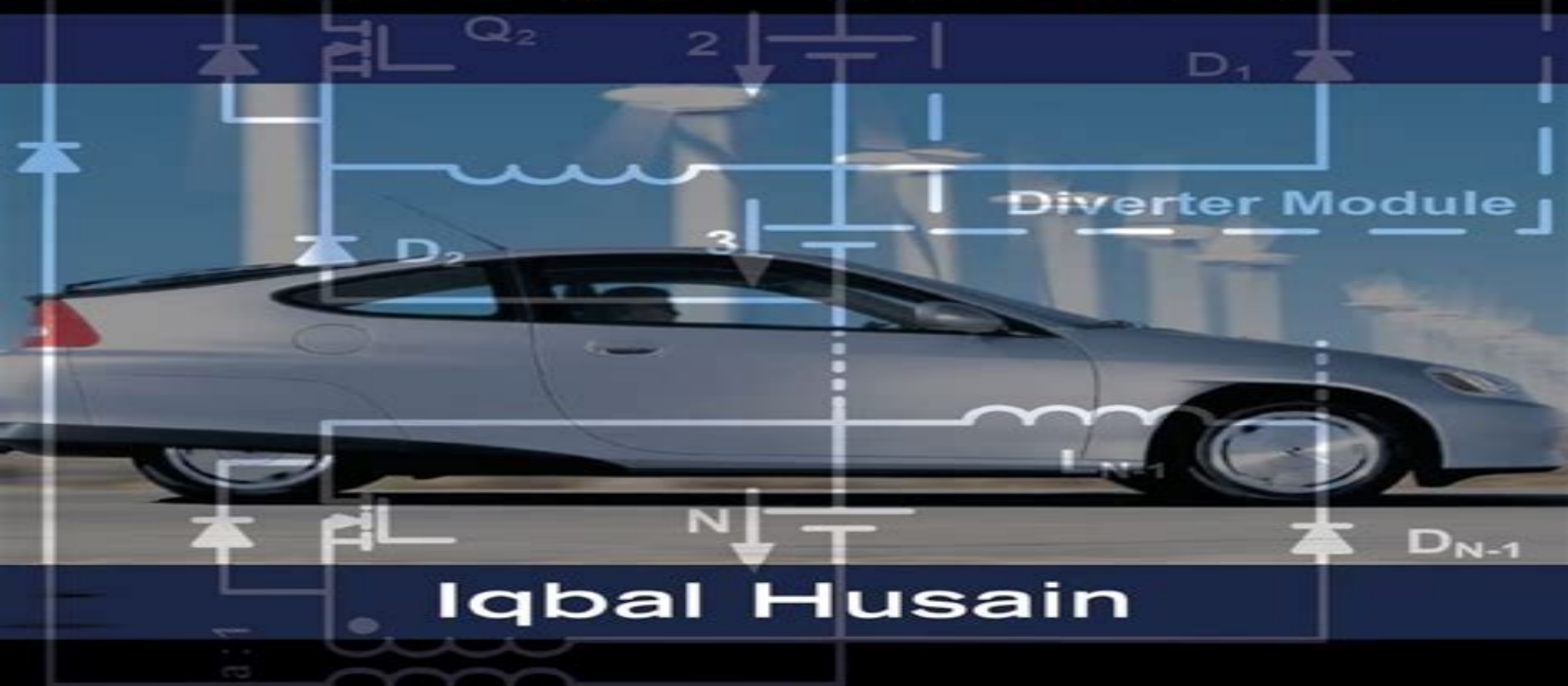


Electric and Hybrid Vehicles

Design Fundamentals

SECOND EDITION



Iqbal Husain



CRC Press
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Electric And Hybrid Vehicles Design Fundamentals

Second Edition

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Electric And Hybrid Vehicles Design Fundamentals Second Edition:

Electric and Hybrid Vehicles Iqbal Husain, 2011-06-27 Thoroughly updated to encompass the significant technological advances since the publication of the first edition Electric and Hybrid Vehicles Design Fundamentals Second Edition presents the design fundamentals component sizing and systems interactions of alternative vehicles This new edition of a widely praised bestselling textbook maintains the comprehensive systems level perspective of electric and hybrid vehicles while covering the hybrid architectures and components of the vehicle in much greater detail The author emphasizes technical details mathematical relationships and design guidelines throughout the text New to the Second Edition New chapters on sizing and design guidelines for various hybrid architectures control strategies for hybrid vehicles powertrain component cooling systems and in vehicle communication methods New sections on modeling of energy storage components tire road force mechanics compressed air storage DC DC converters emission control systems electromechanical brakes and vehicle fuel economy Reorganization of power electronics electric machines and motor drives sections Enhanced sections on mechanical components that now include more technical descriptions and example problems An emphasis on the integration of mechanical and electrical components taking into account the interdisciplinary nature of automotive engineering As an advisor to the University of Akron's team in the Challenge X Crossover to Sustainable Mobility Dr Husain knows first hand how to teach students both the fundamentals and cutting edge technologies of the next generation of automobiles This text shows students how electrical and mechanical engineers must work together to complete an alternative vehicle system It empowers them to carry on state of the art research and development in automotive engineering in order to meet today's needs of clean efficient and sustainable vehicles

Electric and Hybrid Vehicles Iqbal Husain, 2021-02-22 A thoroughly revised third edition of this widely praised bestselling textbook presents a comprehensive systems level perspective of electric and hybrid vehicles with emphasis on technical aspects mathematical relationships and basic design guidelines The emerging technologies of electric vehicles require the dedication of current and future engineers so the target audience for the book is the young professionals and students in engineering eager to learn about the area The book is concise and clear its mathematics are kept to a necessary minimum and it contains a well balanced set of contents of the complex technology Engineers of multiple disciplines can either get a broader overview or explore in depth a particular aspect of electric or hybrid vehicles Additions in the third edition include simulation based design analysis of electric and hybrid vehicles and their powertrain components particularly that of traction inverters electric machines and motor drives The technology trends to incorporate wide bandgap power electronics and reduced rare earth permanent magnet electric machines in the powertrain components have been highlighted Charging stations are a critical component for the electric vehicle infrastructure and hence a chapter on vehicle interactions with the power grid has been added Autonomous driving is another emerging technology and a chapter is included describing the autonomous driving system architecture and the

hardware and software needs for such systems The platform has been set in this book for system level simulations to develop models using various softwares used in academia and industry such as MATLAB Simulink PLECS PSIM Motor CAD and Altair Flux Examples and simulation results are provided in this edition using these software tools The third edition is a timely revision and contribution to the field of electric vehicles that has reached recently notable markets in a more and more environmentally sensitive world **Electric and Hybrid Vehicles** Amir Khajepour,M. Saber Fallah,Avesta

Goodarzi,2014-03-05 An advanced level introductory book covering fundamental aspects design and dynamics of electric and hybrid electric vehicles There is significant demand for an understanding of the fundamentals technologies and design of electric and hybrid electric vehicles and their components from researchers engineers and graduate students Although there is a good body of work in the literature there is still a great need for electric and hybrid vehicle teaching materials Electric and Hybrid Vehicles Technologies Modeling and Control A Mechatronic Approach is based on the authors current research in vehicle systems and will include chapters on vehicle propulsion systems the fundamentals of vehicle dynamics EV and HEV technologies chassis systems steering control systems and state parameter and force estimations The book is highly illustrated and examples will be given throughout the book based on real applications and challenges in the automotive industry Designed to help a new generation of engineers needing to master the principles of and further advances in hybrid vehicle technology Includes examples of real applications and challenges in the automotive industry with problems and solutions Takes a mechatronics approach to the study of electric and hybrid electric vehicles appealing to mechanical and electrical engineering interests Responds to the increase in demand of universities offering courses in newer electric vehicle technologies **Comprehensive Dictionary of Electrical Engineering** Philip A. Laplante,2018-10-03 Succinct yet

comprehensive coverage of the most important terms acronyms and definitions made the first edition of the Comprehensive Dictionary of Electrical Engineering a bestseller Recent advances in many disciplines of this rapidly growing field have made necessary a new edition of this must have reference This authoritative lexicon includes more than 1500 additional terms now supplying more than 11 000 total terms gathered by a stellar international panel of the world s leading experts compiled from CRC s immensely popular and highly respected handbooks and accompanied by more than 120 tables and illustrations New areas to this edition include Process Control and Instrumentation Embedded Sensors and Systems Biomedical Engineering Hybrid Vehicles Mechatronics Data Storage GIS Includes new terms reflecting the rapid growth in Computer Electronics Image Processing Nanotechnology Fuel Cells Phillip Laplante has again succeeded in producing an invaluable up to date reference for the entire field of electrical engineering covering device electronics and applied electrical microwave control power and digital systems engineering in addition to the new areas listed above Whether you are a practicing or student electrical engineer or a professional from another field in need of complete and updated information you need look no further than the Comprehensive Dictionary of Electrical Engineering Second Edition CRC Handbook of Engineering Tables

Richard C. Dorf, 2003-11-24 The most important tables from every engineering discipline in one volume collected from the best most authoritative references in the business it is now more than wishful thinking The CRC Handbook of Engineering Tables makes it a reality The most frequently consulted tables and figures from CRC's acclaimed engineering handbooks are gathered together

Advanced Electric Drive Vehicles Ali Emadi, 2014-10-02 Electrification is an evolving paradigm shift in the transportation industry toward more efficient higher performance safer smarter and more reliable vehicles There is in fact a clear trend to move from internal combustion engines ICEs to more integrated electrified powertrains Providing a detailed overview of this growing area Advanced Electric Drive Vehicles begins with an introduction to the automotive industry an explanation of the need for electrification and a presentation of the fundamentals of conventional vehicles and ICEs It then proceeds to address the major components of electrified vehicles i.e. power electronic converters electric machines electric motor controllers and energy storage systems This comprehensive work Covers more electric vehicles MEVs hybrid electric vehicles HEVs plug in hybrid electric vehicles PHEVs range extended electric vehicles REEVs and all electric vehicles EVs including battery electric vehicles BEVs and fuel cell vehicles FCVs Describes the electrification technologies applied to nonpropulsion loads such as power steering and air conditioning systems Discusses hybrid battery ultra capacitor energy storage systems as well as 48 V electrification and belt driven starter generator systems Considers vehicle to grid V2G interface and electrical infrastructure issues energy management and optimization in advanced electric drive vehicles Contains numerous illustrations practical examples case studies and challenging questions and problems throughout to ensure a solid understanding of key concepts and applications Advanced Electric Drive Vehicles makes an ideal textbook for senior level undergraduate or graduate engineering courses and a user friendly reference for researchers engineers managers and other professionals interested in transportation electrification

Solutions Manual for Electric and Hybrid Vehicles Design Fundamentals Husain Iqbal, 2003-08

Modern Electric, Hybrid Electric, and Fuel Cell Vehicles Mehrdad Ehsani, Yimin Gao, Ali Emadi, 2017-12-19 Air pollution global warming and the steady decrease in petroleum resources continue to stimulate interest in the development of safe clean and highly efficient transportation Building on the foundation of the bestselling first edition Modern Electric Hybrid Electric and Fuel Cell Vehicles Fundamentals Theory and Design Second Edition updates and expands its detailed coverage of the vehicle technologies that offer the most promising solutions to these issues affecting the automotive industry Proven as a useful in depth resource and comprehensive reference for modern automotive systems engineers students and researchers this book speaks from the perspective of the overall drive train system and not just its individual components New to the second edition A case study appendix that breaks down the Toyota Prius hybrid system Corrections and updates of the material in the first edition Three new chapters on drive train design methodology and control principles A completely rewritten chapter on Fundamentals of Regenerative Braking Employing sufficient mathematical rigor the authors comprehensively cover vehicle performance characteristics EV and HEV

configurations control strategies modeling and simulations for modern vehicles They also cover topics including Drive train architecture analysis and design methodologies Internal Combustion Engine ICE based drive trains Electric propulsion systems Energy storage systems Regenerative braking Fuel cell applications in vehicles Hybrid electric drive train design The first edition of this book gave practicing engineers and students a systematic reference to fully understand the essentials of this new technology This edition introduces newer topics and offers deeper treatments than those included in the first Revised many times over many years it will greatly aid engineers students researchers and other professionals who are working in automotive related industries as well as those in government and academia

Energy Efficiency Improvement of Geotechnical Systems Genadiy Pivnyak, Oleksandr Beshta, Mykhaylo Alekseyev, 2013-11-19 This book covers innovative technologies and approaches for improvement of technical and economic parameters of functional geotechnical systems The focus is on mathematical modelling of objects and processes as well as the development of techniques and their control algorithms The book comprises schemata of practical tasks solving related to mine ventilation and electrical circuit operation cutter loaders and mining electrical vehicles It also demonstrates possible applications of hybrid technologies and IT methods to the work of geotechnical systems Implementation of methods and technologies presented in the book will allow to reduce energy resources consumption of geotechnical systems and to enhance environmental and economic parameters of their operation being one of the essential conditions for sustainable development in modern society The book is particular of interest to technical specialists researchers students and university teachers whose work is connected to the improvement of efficiency of geotechnical systems

Electric Vehicles Seref Soylu, 2011-09-12 In this book modeling and simulation of electric vehicles and their components have been emphasized chapter by chapter with valuable contribution of many researchers who work on both technical and regulatory sides of the field Mathematical models for electrical vehicles and their components were introduced and merged together to make this book a guide for industry academia and policy makers

Control Applications of Vehicle Dynamics Jingsheng Yu, Vladimir Vantsevich, 2021-12-24 This book presents essential knowledge of car vehicle dynamics and control theory with NI LabVIEW software product application resulting in a practical yet highly technical guide for designing advanced vehicle dynamics and vehicle system controllers Presenting a clear overview of fundamental vehicle dynamics and vehicle system mathematical models the book covers linear and non linear design of model based controls such as wheel slip control vehicle speed control path following control vehicle stability and rollover control stabilization of vehicle trailer system Specific applications to autonomous vehicles are described among the methods It details the practical applications of Kalman Bucy filtering and the observer design for sensor signal estimation alongside lateral vehicle dynamics and vehicle rollover dynamics The book also discusses high level controllers alongside a clear explanation of basic control principles for regenerative braking in both electric and hybrid vehicles and wheel torque vectoring systems Concrete LabVIEW simulation examples of how the models and controls are used in representative

applications along with software algorithms and LabVIEW block diagrams are illustrated It will be of interest to engineering students automotive engineering students and automotive engineers and researchers *Energy Systems Engineering: Evaluation and Implementation, Second Edition* Francis Vanek,Louis Albright,Largus Angenent,2012-06-02 The defining guide to energy systems engineering updated for the latest technologies Broad in scope with focused instructional detail this text offers a uniquely excellent student accessible educational resource for integrating thermodynamic alternative and renewable energy conversion processes Professor Randy L Vander Wal Department of Materials Science and Engineering Penn State University A carefully written book providing good breadth as well as depth on major conventional and sustainable energy systems Professor David Dillard Department of Engineering Science Mechanics Virginia Tech Fully revised throughout *Energy Systems Engineering Second Edition* discusses fossil nuclear and renewable energy sources emphasizing a technology neutral portfolio approach to energy systems options The book covers major energy technologies describing how they work how they are quantitatively evaluated their cost and their benefit or impact on the natural environment Evaluating project scope cost energy consumption and technical efficiency is clearly addressed Example problems help you to quantify the performance of each technology and better assess its potential Hundreds of illustrations and end of chapter exercises aid in your understanding of the concepts presented in this practical guide Coverage includes Systems and economic tools for energy systems Climate change and climate modeling Fossil fuel resources Stationary combustion systems Carbon sequestration Nuclear energy systems Solar resource evaluation Solar photovoltaic technologies Active and passive solar thermal systems Wind energy systems New chapter on energy from biological sources Transportation energy technologies Systems perspective on transportation engineering **IEEE Circuits & Devices** ,2005

Hybrid Electric Vehicles Chris Mi,M. Abul Masrur,David Wenzhong Gao,2011-05-23 *Modern Hybrid Electric Vehicles* provides vital guidance to help a new generation of engineers master the principles of and further advance hybrid vehicle technology The authors address purely electric hybrid electric plug in hybrid electric hybrid hydraulic fuel cell and off road hybrid vehicle systems They focus on the power and propulsion systems for these vehicles including issues related to power and energy management They concentrate on material that is not readily available in other hybrid electric vehicle HEV books such as design examples for hybrid vehicles and cover new developments in the field including electronic CVT plug in hybrid and new power converters and controls Covers hybrid vs pure electric HEV system architecture including plug in and hydraulic off road and other industrial utility vehicles non ground vehicle applications like ships locomotives aircrafts system reliability EMC storage technologies vehicular power and energy management diagnostics and prognostics and electromechanical vibration issues Contains core fundamentals and principles of modern hybrid vehicles at component level and system level Provides graduate students and field engineers with a text suitable for classroom teaching or self study

Modern Electric, Hybrid Electric, and Fuel Cell Vehicles Mehrdad Ehsani,Yimin Gao,Sebastien E. Gay,Ali

Emadi,2004-12-20 Air quality is deteriorating the globe is warming and petroleum resources are decreasing The most promising solutions for the future involve the development of effective and efficient drive train technologies This comprehensive volume meets this challenge and opportunity by integrating the wealth of disparate information found in scattered paper

Hybrid Electric Vehicles Chris Mi,M. Abul Masrur,2017-09-11 The latest developments in the field of hybrid electric vehicles Hybrid Electric Vehicles provides an introduction to hybrid vehicles which include purely electric hybrid electric hybrid hydraulic fuel cell vehicles plug in hybrid electric and off road hybrid vehicular systems It focuses on the power and propulsion systems for these vehicles including issues related to power and energy management Other topics covered include hybrid vs pure electric HEV system architecture including plug in charging control and hydraulic off road and other industrial utility vehicles safety and EMC storage technologies vehicular power and energy management diagnostics and prognostics and electromechanical vibration issues Hybrid Electric Vehicles Second Edition is a comprehensively updated new edition with four new chapters covering recent advances in hybrid vehicle technology New areas covered include battery modelling charger design and wireless charging Substantial details have also been included on the architecture of hybrid excavators in the chapter related to special hybrid vehicles Also included is a chapter providing an overview of hybrid vehicle technology which offers a perspective on the current debate on sustainability and the environmental impact of hybrid and electric vehicle technology Completely updated with new chapters Covers recent developments breakthroughs and technologies including new drive topologies Explains HEV fundamentals and applications Offers a holistic perspective on vehicle electrification Hybrid Electric Vehicles Principles and Applications with Practical Perspectives Second Edition is a great resource for researchers and practitioners in the automotive industry as well as for graduate students in automotive engineering

Energy Systems Engineering: Evaluation and Implementation Francis Vanek,Louis Albright,2008-05-19 A Unique Systems Approach to Energy Engineering Covering Carbon Based Nuclear and Renewable Sources An essential reference for all engineers and students working with energy systems Energy Systems Engineering presents a systems approach to future energy needs covering carbon based nuclear and renewable energy sources This unique guide explores the latest technology within each energy systems area the benefits and liabilities of each the challenges posed by changing energy supplies the negative impacts from energy consumption especially CO2 emissions and the ways in which a portfolio of new technologies can address these problems Filled with over 200 detailed illustrations and tables the book examines short medium and long term energy options for the remainder of the twenty first century For each energy system the authors provide equations and problems to help practitioners quantify the performance of the technology and better understand its potential Energy Systems Engineering features A valuable systems approach to energy engineering Coverage of all major energy topics_ from climate change to wind power Both U S and global energy perspectives with international comparisons Emphasis on CO2 issues and abatement including carbon sequestration A wealth of equations

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